

**ABSTRACT OF THE DISCLOSURE**

An automated method for determining a plurality of characteristics of a breast lesion is provided. The method comprises automatically identifying a region of interest in an image, the region of interest comprising the breast lesion, and preprocessing the region of interest to enhance a quality of the image. The method further comprises automatically segmenting the breast lesion in the region of interest and automatically measuring a plurality of measurements for determining the plurality of characteristics of the breast lesion. The breast lesion is automatically classified as benign or malignant based on the plurality of measurements.